

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5202798

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TOUFIC TANNOUS	10/17/2018
DEEPAK VOKALIGA	10/22/2018
BHASKAR BORA	10/17/2018
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16168910
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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Address Line 1:	2 DUNDEE PARK
Address Line 4:	ANDOVER, MASSACHUSETTS 01810
ATTORNEY DOCKET NUMBER:	130-192; 112301.01
NAME OF SUBMITTER:	HOLMES W. ANDERSON
SIGNATURE:	/Holmes W. Anderson/
DATE SIGNED:	10/24/2018
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, **Toufic Tannous, Bhaskar Bora, and Deepak Vokaliga**, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

CONCURRENT REMOTE IO PROCESSING FOR SYNCHRONOUS REPLICATION,

the specification of which:

☒ [X] is being executed on even date herewith and is about to be filed in the United States Patent Office;

☐ [] was filed on ____ as U.S. Application No. _____;

☐ [] was patented under U.S. Patent No. _____ on _____.

WHEREAS, **EMC IP HOLDING COMPANY LLC** (hereinafter "ASSIGNEE"), a Delaware limited liability company having a usual place of business at **176 South Street, Hopkinton, Massachusetts 01748** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts

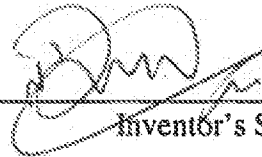
which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

AND, we do hereby appoint as our attorneys Holmes W. Anderson and John C. Gorecki of Anderson Gorecki LLP, whose full office address is 2 Dundee Park, Suite 301A, Andover, MA 01810, and authorize them to prosecute the patent application(s) and correct errors in this Assignment and to insert any further identification and other information necessary or desirable to make this Assignment suitable for recording in a domestic or foreign Patent Office.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 22-OCT-2018



Inventor's Signature

Print full name of inventor

Deepak Vokaliga

Residence

87 Wood Street

Hopkinton, MA 01748

Citizenship

India

Mailing Address

176 South Street

Hopkinton, MA 01748

I, Louis Long (name of first witness), whose residential address is
12 Mt. Pleasant St Westborough MA 01581

was personally present and did see **Deepak Vokaliga** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

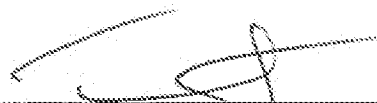
 (signature of first witness)

Signed at 176 South St Hopkinton MA 01748 (location of witness signature)

on this day, October 22, 2018 (date of signature).

I, Jan Adams (name of second witness), whose residential address is
72 Foster St #3, Cambridge MA 02138

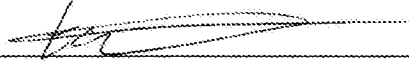
was personally present and did see **Deepak Vokaliga** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 176 South St, Hopkinton MA 01748 (location of witness signature)

on this day, October 22, 2018 (date of signature).

Date: 10/17/2018


Inventor's Signature

Print full name of inventor

Toufic Tannous

Residence

32087 Hamilton Court, Apt. 104

Solon, OH 44139

Citizenship

US

Mailing Address

176 South Street

Hopkinton, MA 01748

I, Margaret Azzi (name of first witness), whose residential address is
32087 Hamilton CT Apt 104 Solon, OH 44139
was personally present and did see **Toufic Tannous** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 32087 Hamilton CT Apt 104 Solon, OH 44139 (location of witness signature)
on this day, 10/17/18, 2018 (date of signature).

I, Mary Brady (name of second witness), whose residential address is
1329 Lewis Ave Louisville, OH 44641
was personally present and did see **Toufic Tannous** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Mary Brady (signature of second witness)

Signed at 32087 Hamilton CT APT 104 Solon, OH 44139 (location of witness signature)
on this day, 10/17/18, 2018 (date of signature).

Date: 10/17/2018

Bhaskar Bora
Inventor's Signature

Print full name of inventor

Bhaskar Bora

Residence

6 Ashton Drive
Shrewsbury, MA 01545

Citizenship

India

Mailing Address

176 South Street
Hopkinton, MA 01748

I, Svetlana Sokolova (name of first witness), whose residential address is
87 Russell Road, Framingham, MA, 01702
was personally present and did see **Bhaskar Bora** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

[Signature] (signature of first witness)
Signed at Hopkinton, MA (location of witness signature)
on this day, 10/17, 2018 (date of signature).

I, Bhaskar Bora (name of second witness), whose residential address is
6 Ashton Drive, Shrewsbury, MA 01545
was personally present and did see **Bhaskar Bora** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Bhaskar Bora (signature of second witness)
Signed at Shrewsbury, MA (location of witness signature)
on this day, 10/18, 2018 (date of signature).